OIL AND GREASE-LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD
SM ONLINE 5520 B-01

Facility Name:_____VELAP ID_____

Assessor Name:_____Analyst Name:_____Inspection Date_____

Relevant Aspect of Standards	Method Reference	Y	N	N/A	Comments
Records Examined: SOP Number/ Revision/ Date _____ Analyst:_____ Sample ID: _____ Date of Sample Preparation:_____ Date of Analysis:_____					
Were samples collected in glass containers?	5520 A 3				
Were glass sample containers cleaned by washing with soap and water?	5520 A 3				
After cleaning, were containers either solvent rinsed or baked in an oven for at least an hour?	5520 A 3				
Were sample containers **not** overfilled upon collection?(Oil and Grease will float on water, and analytes flow out.)	5520 A 3				
Were samples **not** ever subdivided? (Oil and Grease will stick together and to the container and not evenly distribute between aliquots.)	5520 A 3				
If analysis was more than 2 hours after collection, were samples preserved to a pH < 2 and refrigerated?	5520 A 3				
Was hexane at least 85% n-hexane and 99% other hexane isomers?	5520 B 3 b				
Was solvent never transferred between containers using plastic tubing?	5520 B 3 b				
Was sodium sulfate dried at 250°C for 24 hours?	5520 B 3 c				
If samples were not acidified to pH < 2 upon collection, were they acidified to pH < 2 prior to analysis?	5520 B 4				
Were sample containers marked with initial sample level, so that initial sample volume could be determined later? (Samples should not be poured into secondary volumetric device due to analyte container adhesion.)	5520 B 4				
After sample was poured into a separatory funnel, was the sample container rinsed with extracting solvent into the separatory funnel?	5520 B 4				
Notes/Comments:					

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Was the separatory funnel shaken vigorously for 2 minutes?	5520 B 4				
Was the aqueous layer along with a **small** amount of solvent phase removed from the sep funnel into the original sample container?	5520 B 4				
Was the solvent layer in the sep funnel passed through sodium sulfate/filter into a solvent-rinsed flask?	5520 B 4				
If emulsions of less than about 5 mL occurred, were emulsion layers and aqueous phases combined in original containers and extracted twice more?	5520 B 4				
If above emulsions persisted, were solvents and emulsions combined, centrifuged, passed through sodium sulfate/filter?	5520 B 4				
If emulsions of more than about 5 mL occurred, were solvent layers centrifuged, passed through sodium sulfate/filter, recombined with aqueous phases, and extracted again ?	5520 B 4				
Were solvents distilled from flasks at 85°C?	5520 B 4				
When visible solvent condensation stopped, was air drawn over the residue under vacuum for 1 minute?	5520 B 4				
Were residues cooled in a desiccator?	5520 B 4				
Notes/Comments:					